

WHAT IS CLAIMED IS:

- 1                    1.     A chip device comprising:  
2                    a leadframe including a plurality of leads;  
3                    a die including a metallized backside and further including source and gate  
4 terminals opposite the metallized backside, the die being coupled to the leadframe such  
5 that the leads of the leadframe are directly coupled to the terminals; and  
6                    a body with a window defined therein, the body enveloping at least a  
7 portion of the leadframe and the die;  
8                    wherein the die is positioned with respect to the body such that the  
9 metallized backside is adjacent the window.
- 1                    2.     A chip device in accordance with claim 1 wherein the die is  
2 coupled to the leadframe with solder bumps.
- 1                    3.     A chip device in accordance with claim 1 wherein the leadframe is  
2 silver plated where the leadframe is coupled to the terminals.
- 1                    4.     A chip device in accordance with claim 1 wherein the leadframe is  
2 nickel plated where the leadframe is coupled to the terminals.
- 1                    5.     A chip device in accordance with claim 1 wherein the device  
2 comprises two dies each including a metallized backside and each further including  
3 source and gate terminals opposite the metallized backside, the dies being coupled to  
4 corresponding die attach pads of the leadframe such that the leads of the leadframe are  
5 directly coupled to the terminals, and wherein the body includes two windows defined  
6 therein and the dies are positioned with respect to the body such that the metallized  
7 backsides are adjacent a corresponding window.
- 1                    6.     A chip device in accordance with claim 5 wherein the die attach  
2 pads are coupled to one another.
- 1                    7.     A method of making a chip device, the method comprising:  
2 providing a leadframe that includes leads;

3 providing a die that includes a metallized backside;  
4 coupling the die to the leadframe; and  
5 encapsulating the die with a body such that the metallized backside of the  
6 die is adjacent a window defined within the body.

1 8. A method in accordance with claim 7 further comprising  
2 configuring the plurality of leads.

1 9. A method in accordance with claim 8 further comprising removing  
2 dambars from the leadframe, removing mold flashes and resins from the leads, and solder  
3 plating the leads.

1 10. A method in accordance with claim 7 further comprising marking  
2 the body on a surface opposite the window.

1 11. A method in accordance with claim 10 wherein the marking is  
2 performed with a laser.

1 12. A method in accordance with claim 10 wherein the marking is  
2 performed with ink.

1 13. A method in accordance with claim 7 wherein the leadframe is  
2 provided with preplated leads.

1 14. A method in accordance with claim 7 wherein the leadframe is  
2 provided with preformed leads.

1 15. A method in accordance with claim 7 wherein the leadframe is  
2 provided with preplated leads and preformed leads.

1 16. A method in accordance with claim 7 wherein the die is coupled to  
2 the leadframe die attach pad and post via solder bumps, and wherein the solder bumps are  
3 re-flowed.

1                    17.    A method in accordance with claim 7 wherein the leadframe is  
2    provided with two die attach pads and posts, and the method further comprises providing  
3    two dies that each include a metallized back side, and coupling the first of the two dies to  
4    a first die attach pad and post, coupling a second of the two dies to a second die attach  
5    pad and post.